

SECTION 09670 LATEX MASTIC FLOORING

PART 1 GENERAL

1.01 GENERAL REQUIREMENTS

- A. Work of this Section, as shown or specified, shall be in accordance with the requirements of the Contract Documents.

1.02 WORK INCLUDED

- A. Work of this Section includes all labor, materials, equipment and services necessary to complete the latex mastic flooring as shown on the drawings and/or specified herein.

1.03 RELATED WORK

- A. Concrete – Section 03300.
 - 1. Concrete subbase should be either water-cured or cured using sodium silicate curing compounds only. Other types of curing compounds are not acceptable.
 - 2. Concrete subbase shall be cured for a minimum of 28 days. Slab on grade floors shall have vapor retarder beneath slab.
- B. Floor Drains – Division 15.
 - 1. Floor drains, clean-outs, etc., should be of the “floor-flange” type as manufactured for use with composition floors.

1.04 SUBMITTALS

- A. General: Submit the following on accordance with Conditions of Contract and Division 1 Specification Sections.
- B. Product Data: Submit manufacturer’s technical data, application instructions and general recommendations for the latex mastic flooring specified herein.
- C. Samples
 - 1. Submit 2-1/2” x 4” samples of color as designated by the Architect.
- D. Material certificates signed by manufacturer certifying that the latex mastic flooring complies with requirement specified herein.

1.05 QUALITY ASSURANCE

- A. Installer Qualifications: Engage an experienced installer or applicator who has specialized in installing latex mastic flooring types similar to that required for this Project.
- B. Single-Source Responsibility: Obtain latex mastic composition materials, including primers, resins, hardening agents, and finish or sealing coats, from a single manufacturer.
- C. Request for substitution: Request for material substitution approvals must be submitted to the Architect, including complete application specifications, physical characteristics and chemical data.

1.06 DELIVERY, STORAGE AND HANDLING

- A. Delivery materials in original packages and containers with seal unbroken and bearing manufacturer's labels containing brand name and directions for storage and mixing with other components.
- B. Store materials to comply with manufacturer's directions to prevent deterioration from moisture, heat, cold, direct sunlight, or other detrimental effects.

1.07 PROJECT CONDITIONS

- A. Environmental Conditions: Comply with latex mastic flooring manufacturer's directions for maintenance of ambient and substrate temperature, moisture, humidity, ventilation, and other conditions required to execute and protect Work.
- B. Lighting: Permanent lighting will be in place and working before installing resinous polyacrylate.

PART 2 PRODUCTS

2.01 MATERIALS

- A. Troweled latex mastic flooring shall be Dex-O-Tex Neotex-261 as manufactured by Crossfield Products Corp., Rancho Dominguez, California; Roselle Park, New Jersey; Hinsdale, Illinois; Moss Point, Mississippi; Tacoma, Washington, or equal.

2.02 PROPERTIES

- A. Physical Properties:
 - 1. Provide latex mastic flooring system that meets or exceeds the listed minimum physical property requirements when tested according to the referenced standard test method on parentheses.

- a. Compressive Strength
(ASTM C-109)
5,450 psi
- b. Tensile Strength
(ASTM C-190)
889 psi
- c. Surface Hardness
(ASTM D-2240)
Scale "D" 80
- d. Water Absorption
(MIL-D-3134)
3.4 percent max.
- e. Indentation
(MIL-D-3134)
0.034 indentation
- f. Impact Resistance
(Gardner Impact Tester)
No chipping, cracking or delamination and not more than 0.014"
- g. Adhesion
(A.C.I. Comm. No. 403)
301 psi
- h. Flammability
(NFPA 101-88)
Class 1 Interior Finish
- i. Coefficient of Thermal Expansion
(ASTM C-531)
 2.82×10^{-6}

PART 3 EXECUTION

3.01 INSPECTION

- A. Examine the area and conditions where the latex mastic flooring is to be installed and notify the Architect of conditions detrimental to the proper and timely completion of the work. Do not proceed with the work until unsatisfactory conditions have been corrected.

3.02 PREPARATION

- A. Substrate: Perform preparation and cleaning procedures according to latex mastic flooring manufacturer's instructions for particular substrate conditions involved, and as specified. Provide clean, dry, and neutral substrate for application of latex mastic flooring.
- B. Concrete Surfaces: Shot-blast, acid etch or power scarify as required to obtain optimum bond of latex mastic to concrete. Remove sufficient material to provide a sound surface free of laitance, glaze, efflorescence, and any bond-inhibiting curing compounds or form release agents. Remove grease, oil and other penetrating contaminants. Repair damaged and deteriorated concrete to acceptable condition. Leave surface free of dust, dirt, laitance, and efflorescence.
- C. Materials: Mix resin catalyst and aggregate when required, and prepare materials according to latex mastic flooring system manufacturer's instructions.
- D. Install all trim/stops prior to floor application.

3.03 APPLICATION

- A. General: Apply each component of latex mastic flooring system according to manufacturer's directions to produce a uniform monolithic latex mastic surface of thickness indicated.
- B. Bond Coat: Apply bond coat over prepared substrate at manufacturer's recommended spreading rate.
- C. Body Coat: Over primer, trowel apply latex mastic mortar mix at nominal thickness of $\frac{1}{4}$ inch; hand or power trowel. When cured, sand or grind if necessary to remove trowel marks and roughness.
- D. Grout Coat: Apply grout to fill porosity in the latex mastic. Provide a smooth, even finish. When cured, sand or grind if necessary to remove trowel marks.
- E. Finish Coats: Apply two coats of DC Finish, or Colorseal, over the prepared surface. Take care to provide a smooth, even finish.

3.04 CURING, PROTECTION AND CLEANING

- A. Cure latex mastic flooring materials according to manufacturer's directions, taking care to prevent contamination during application stages and before completing curing process. Close application area for a minimum of 24 hours after application of the final finish.

END OF SECTION

